

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part for measuring a temperature of water;

a water gauge chamber extending along an outer side of an outer edge of an outer tub of a washing machine; and

a hollow chamber cap located at a bottom edge of the water gauge chamber, an entire surface of the hollow chamber cap exposed to the water in the water gauge chamber defining an upper surface of the hollow chamber cap, the entire upper surface being a flat, disc-shaped surface, the temperature measuring part being mounted in a seating portion of the hollow chamber cap, the temperature measuring part being below the entire upper surface of the hollow chamber cap.

2. (Previously Presented) The water temperature sensor of claim 1, further comprising a heat insulating material inserted into a hollow space of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

3. (Previously Presented) A water temperature sensor comprising:

a temperature measuring part including a temperature detecting sensor for measuring the temperature of water, and signal lines for connecting the temperature detecting sensor with a circuit requiring the measured value; and

a hollow chamber cap fitting into and thereby closing an opened bottom portion of a water gauge chamber, a hollow space of the hollow chamber cap facing downward, an entire

surface of the hollow chamber cap exposed to the water in the water gauge chamber defining an upper surface of the hollow chamber cap, the entire upper surface being a flat, disc-shaped surface,

wherein the temperature measuring part is disposed in a seating portion of the hollow chamber cap, so that the water temperature is measured without the temperature measuring part directly contacting with the water.

4. (Previously Presented) The water temperature sensor of claim 3, further comprising a heat insulating material inserted into the hollow space of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

5. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part including a temperature detecting sensor for measuring the temperature of water, signal lines for connecting the temperature detecting sensor with a circuit requiring the measured value, and a cylindrical probe containing the temperature detecting sensor and the signal lines;

a water gauge chamber extending along an outer side of an outer edge of an outer tub of a washing machine; and

a hollow chamber cap located on a bottom edge of the water gauge chamber,

wherein the cylindrical probe of the temperature measuring part extends upward from within the hollow chamber cap through a hole at an upper surface of the hollow chamber cap, the cylindrical probe of the temperature measuring part directly contacting a washing water in the

water gauge chamber after penetrating the hole, the cylindrical probe being made of a different material from the hollow chamber cap.

6. (Previously Presented) The water temperature sensor of claim 5, further comprising a heat insulating material inserted into a hollow space of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

7. (Canceled)

8. (Previously Presented) The water temperature sensor of claim 1, wherein the hollow chamber cap is welded to the bottom edge of the water gauge chamber.

9. (Previously Presented) The water temperature sensor of claim 1, wherein the outer tub is formed with a cylindrical upper portion and a truncated conical-shaped lower portion the truncated conical-shaped portion being tapered inwardly toward a bottom of the outer tub, and the hollow chamber cap is separated from the cylindrical upper portion by a vertical length of the truncated conical-shaped portion tapered inwardly.

10. (Previously Presented) The water temperature sensor of claim 1, wherein the hollow chamber cap is formed of plastic.

11. (Previously Presented) The water temperature sensor of claim 5, wherein the hole is at a center of the upper surface of the hollow chamber cap.